PM J-AIT ITV Operations and Training Newsletter

June 2006

pmJ-AIT
PRODUCT MANAGER
JOINT-AUTOMATIC IDENTIFICATION TECHNOLOGY

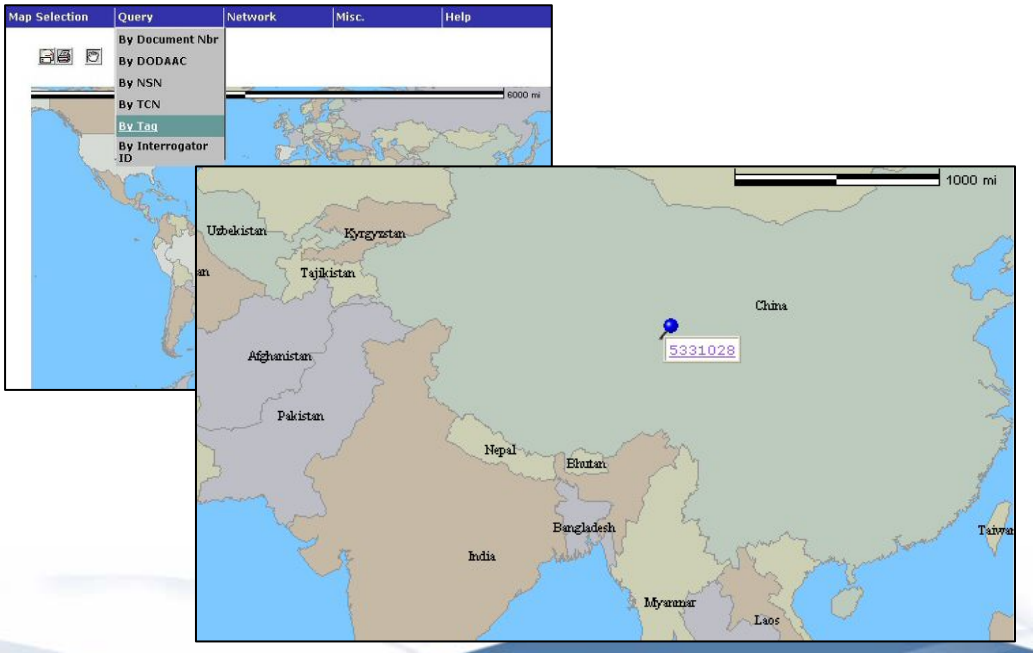
Check out the PM J-AIT Web site at: http://www.eis.army.mil/AIT to view the latest PM J-AIT contract(s) for AIT and Radio Frequency Identification (RFID) hardware, software, technical engineering services, and maintenance.

Registering the Correct Latitude/Longitudes

Latitude and longitude coordinates are not automatically generated by the In-Transit Visibility (ITV) server and must be entered by the user when setting up an interrogator or tag docking station (TDS). The only exception to automatically generating latitude and longitude coordinates is if you are using a Savi Portable Deployment Kit (PDK). When using a PDK, data is collected and communicated to the Savi SmartChain Site Manager, then forwarded to the ITV server via an Iridium Modem with Global Positioning System (GPS) to provide latitude and longitude data to the ITV server.

When registering your Radio Frequency (RF) interrogator or TDS, it is important to enter the correct latitude and longitude coordinates. Why is it important? Not only does it make the difference in finding the correct location of your RF interrogator and TDS on the ITV Server's Web Mapping Application, it also makes the difference in maintaining visibility of your RF tags using the Web Mapping Application. In addition, latitude and longitude coordinates are used by other systems, such as Battle Command Sustainment and Support System (BCS3), in their mapping applications. Incorrect latitude or longitude coordinates impact other systems and give a false impression as to where tags are located.

For example, using the "Query By Tag" feature on the ITV Web Mapping Application to locate the last place RF tag 5331028 was read, it appears to be located in China. But is it really? Let's take a look…



If you have any questions or comments, please contact the following points of contact:

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If this newsletter has been forwarded to you and you would like to be added to the distribution list, please send your request via E-mail to PM J-AIT (Jerry Rodgers) at jerry.d.rodgers@us.army.mil.

We queried the ITV Server for RF tag 5331028. Looking at the the tag events data for this tag, it was last read on 19 May 06 in Afghanistan at BAGRAM AF MULTICLASS (W8G) SARSS not China.

TAG: 5331028

LICENSE PLATE

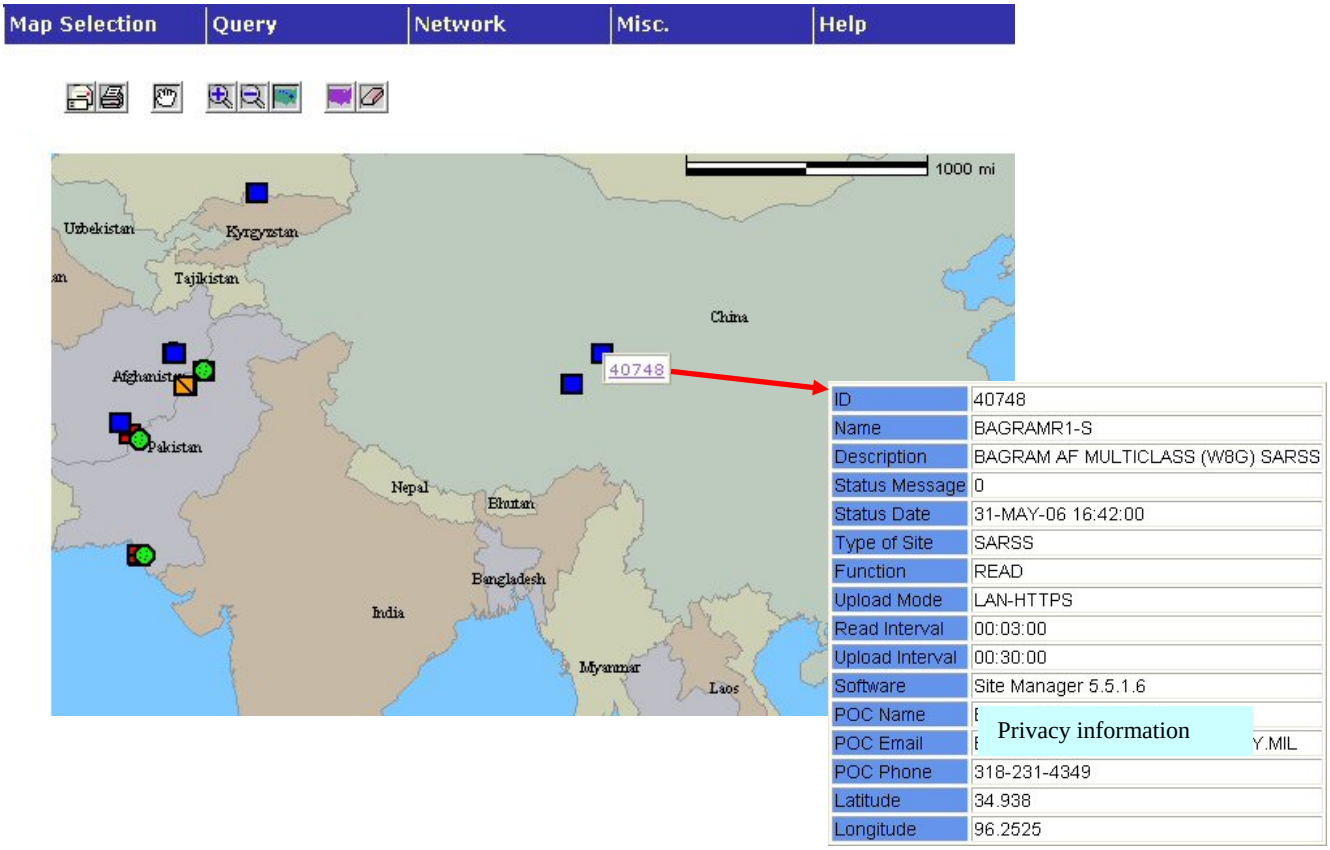
Lead TCN: SW32276126D320XXX **Container:** PALL201NEX
POE: DOV **POD:** OA1
Consignee: W91EB8 **Consignor:** SW3227
Hazmat Code: X **TP:** 1
Service: ARMY **Operation:**
Comm Class: CLASS IX
Free Text:

TCMD
COMMODITY

EVENTS

First Reported Date	Last Reported Date	Event	RF Hit(s)	Status	Site
2006-13-MAY 11:44	2006-19-MAY 11:05	READ	4802		BAGRAM AF MULTICLASS (W8G) SARSS
2006-13-MAY 11:19	2006-13-MAY 11:19	TK6	1		BAGRAM AF MULTICLASS (W8G) SARSS
2006-11-MAY 22:42	2006-12-MAY 16:48	READ	15		MANAS KG INBOUND/OUTBOUND
2006-10-MAY 22:32	2006-10-MAY 22:32	READ	12		DOVERAFB DE APOE C5 RAMP
2006-10-MAY 02:22	2006-10-MAY 02:22	READ	2		DOVERAFB DE TRUCK APOE ARR/DEP
2006-08-MAY 18:35	2006-08-MAY 18:35	READ	6		RED RIVER TX DDRT TRUCK GATE DLA
2006-06-MAY 21:38	2006-06-MAY 21:38	WRITE	1		RED RIVER TX AMS DEFENSE DEPOT CCP2

Using the ITV server to search for BAGRAM AF MULTICLASS (W8G) SARSS, the registration data shows that the coordinates entered for Interrogator ID 40748 (BAGRAM AF MULTICLASS (W8G) SARSS) actually place this read interrogator in China.



During our analysis, we found more sites that were registered with obviously incorrect coordinates. As of 1 June 2006, the following sites had been registered in the wrong country or state:

Read sites:

INT ID	INT DESCRIPTION	LOCATION ON MAP ACCORDING TO LAT/LONG COORDINATES
23191	HUNTER AAF **GA** DAAGG OPERATIONS FACILITY	In the Atlantic Ocean off the coast of Georgia
40846	NEW RIVER **NC** MCAS GATE 2	In the Atlantic Ocean off the coast of South Carolina
25444	CAMPBELL **KY** ADACG	Tennessee (west of Nashville)
21312	BENNING **GA** TRUCK ARRIVAL/DEPARTURE	Alabama (west of Montgomery)
26266	BLUEGRASS STATION **KY** BUILDING 220 BAY E	North of Tallahassee in Florida
26288	MARCH ARB **CA** MAIN GATE ARR/DEP	Pacific Ocean
26300	MIRAMAR **CA** MCAS EAST GATE	Pacific Ocean
42218	MONTGOMERY **AL** A13 USPFO SARSS	In the Atlantic Ocean off the coast of South Carolina
40748	BAGRAM **AF** MULTICLASS (W8G) SARSS **(Afghanistan)**	China
44759	STEWART **GA** GATE 7 ARR/DEP	China
22389	RED RIVER **TX** DDRT TRUCK GATE DLA	China
43696	TOBYHANNA **PA** BACK GATE TRUCK ARR/DEP	New York
DVA0015_R	CEDARII **IZ** CSC,KBR LOT **(Iraq)**	In the ocean off the coast of Africa

Write sites:

INT ID	INT DESCRIPTION	LOCATION ON MAP ACCORDING TO LAT/LONG COORDINATES
T903050183	BUSAN **KS** 837TH TB PIER 8 **(Korea)**	Off the Coast of California in the ocean
T904050133	SAM HOUSTON **TX** USARSO G-4	China
T28011	DDBC BARSTOW, **CA** WHSE5 TRAFFIC	Off the coast of Africa in the ocean
T904120207	BALAD SOUTHEAST **IZ** APF RFID **(Iraq)**	Off the coast of Africa in the ocean
T90	DEFENSE DISTRIBUTION DEPOT SIGONELLA BLDG 452 **(Italy)**	Off the coast of Africa in the ocean
T904110012	SIGONELLA **IT** DEFENSE DISTRIBUTION DEPOT BLDG 452 **(Italy)**	Off the coast of Africa in the ocean
T904120237	BALAD SOUTHEAST **IZ** APF RFID **(Iraq)**	Off the coast of Africa in the ocean
T90412037	BALAD SOUTHEAST **IZ** APF RFID **(Iraq)**	Off the coast of Africa in the ocean
T5364699	BALAD SOUTHEAST **IZ** APF RFID **(Iraq)**	Off the coast of Africa in the ocean
T0242	ROCKISLAND **IL** RIA GARRISON WRITE	Off the coast of Africa in the ocean
T901100051	DDAG ALBANY **GA**. BLDG. 1221	Off the coast of Africa in the ocean
40942	AL ASAD **IZ** BLDG TACC 2D MAW WRITE **(Iraq)**	Located in Africa
26164	AL ASAD AB, **IRAQ** BLDG TACC 2D MAW WRITE	Located in Africa
W04421199	READER	Located in Africa
T23214	BAMBERG **GM** 469 BSB TCAIMS II **(Germany)**	Located in Africa
T903030062	RAMSTEIN AB **GM** 723 AMS CSE RFID **(Germany)**	Located in Africa
T903050185	CAPE DET WRITE 1	Off the coast of India in the ocean
T901100053	PORTOFBARAHONA NH06 EEDSK	Off the coast of India in the ocean
T904050133	SAM HOUSTON **TX** USARSO G-4	China
W40979	CHARLESTON **SC** AMC CEG-A L13NW (AWRDS)	China
T903040001	JACKSONVILLE **FL** 832ND TB WRITE STATION 1	Africa
T052342	SIGONELLA **IT** SIGONELLA NAS RFID	In the ocean off the coast of Japan
T905040073	DARMSTADT **GM** 596 MAINT AMS **(Germany)**	China
T905040078	KITZINGEN **GM** 147 MAINT AMS**(Germany)**	China

The United States is west of the GMT so CONUS sites would be ***North Latitude*** and ***West Longitude***. This is important! If you enter the wrong hemisphere, your coordinates will be incorrect and your interrogator may look like it is located in the middle of the ocean or in a different country!

Latitude and longitude coordinates can be looked up at sites like ***Topozone.com*** or ***Google Earth***. In order to convert the coordinate format so that your longitude and latitude coordinates are consistent with the ITV server, when the first part of the longitude is two numbers, add a preceding "0" to make up the 7 numbers needed. *Example*: 75.55.25W will become 075.55.25W.

In addition to sites registered with the incorrect coordinates that place the site in a different country or state, there are some sites registered with default coordinates (zero latitude/longitude). Registering sites with zero latitude/longitudes places the read/write site in the ocean off the coast of Africa. RF read/write sites that have been registered with a zero latitude and/or longitude can be found on the National ITV Server by clicking **Reports**, then **Data Quality Reports**. We recommend that you check this report, and if your Read/Write sites are appearing on this report, re-register your site with the correct latitude/longitude coordinates.

Read/Write Sites reported the week of 5 Jun 06 that were registered with Zero Latitude/Longitude coordinates:

	A	B	C	D	E	F	G	H
1	REPORT_DTG	LOCATION	INT_ID	INT_NAME	INT_DESCRIPTION	LATITUDE	LONGITUD	STATUS_DTG
2	4-Jun-06		14560	INT 14560	INT 14560	0	0	5/29/2006 23:14
3	4-Jun-06		297	INT 297	INT 297	0	0	6/2/2006 16:13
4	4-Jun-06		T23910	WSA W1	ASP# 8 WEILERBACH	0	0	5/30/2006 10:09
5	4-Jun-06	AL TAQADDUM IZ	T904050107	ALTAQADDUMW	AL TAQADDUM IZ TMO S&R AMS W1	0	0	6/3/2006 10:10
6	4-Jun-06	AL TAQADDUM IZ	T904050058	ALTAQADDUMW	AL TAQADDUM IZ TMO S&R LOT AMS W10	0	0	6/3/2006 15:29
7	4-Jun-06	AL TAQADDUM IZ	T904050032	ALTAQADDUMW	AL TAQADDUM IZ SEABEES AMS W12	0	0	6/3/2006 18:13
8	4-Jun-06	AL TAQADDUM IZ	T904050123	ALTAQADDUMW	AL TAQADDUM IZ CLASS III AMS W16	0	0	6/3/2006 7:36
9	4-Jun-06	AL TAQADDUM IZ	T904120095	ALTAQADDUMW	ALTAQADDUM IZ CLASS IV AMS W18	0	0	6/4/2006 10:14
10	4-Jun-06	AL UDEID AB	T904120225	ALUDEIDABW35	AL UDEID AB QA 64 AEG ATOC RFID	0	0	6/4/2006 0:49
11	4-Jun-06	ASP1 VILSECK	T5922	VILSECK APS 1	VILSECK GE 529TH ORD CO	0	0	6/2/2006 6:02
12	4-Jun-06	BIAP	DVA0029_R	BIAPR1-D	BIAP IZ ARMY MCT OFFICE	0	0	6/1/2006 14:47
13	4-Jun-06	BIAP	DVA0029_W	BIAPW1-D	BIAP IZ ARMY MCT OFFICE	0	0	6/1/2006 14:47
14	4-Jun-06	CEDARII	DVA0015_R	CEDARIIR1-D	CEDARII IZ CSC KBR LOT	0	0	6/4/2006 17:15
15	4-Jun-06	CEDARII	DVA0018_R	CEDARIIR3-D	CEDARII IZ CSC FREEDOM LOT	0	0	6/4/2006 21:39
16	4-Jun-06	CEDARII	DVA0015_W	CEDARIIW1-D	CEDARII IZ CSC KBR LOT	0	0	6/4/2006 2:00
17	4-Jun-06	CEDARII	DVA0018_W	CEDARIIW3-D	CEDARII IZ CSC FREEDOM LOT	0	0	6/4/2006 21:39
18	4-Jun-06	DARBYAMMOW1	T901100008	DARBYAMMOW1	AFSBN-LI LIVORNO ITALY	0	0	5/31/2006 7:31
19	4-Jun-06	FOB WARHORSE	T905020069	WARHORSEW1-	BAQUBAH IZ WARHORSE SSA (WP6)SARSS	30.7961	0	5/29/2006 9:23
20	4-Jun-06	FRV BASTION AFG	W25378	UKBAMR01	84 MSS CAMP BASTION AFGHANISTAN	0	0	5/31/2006 10:43
21	4-Jun-06	FRV BASTION AFG	W25408	UKBRVR01	BASTION MAIN GATE AFGHANISTAN	0	0	5/29/2006 22:26
22	4-Jun-06	HABURGATE	DVA0020_R	HABURGATER1-	HABURGATE IZ TURKISH BORDER	0	0	6/4/2006 13:23
23	4-Jun-06	HABURGATE	DVA0020_W	HABURGATEW1-	HABURGATE IZ TURKISH BORDER	0	0	6/4/2006 13:23
24	4-Jun-06	LEJEUNE	40901	24MEUCEW51	H-23 CLNC 2ND DECK WRITE	34.678	0	6/1/2006 15:35
25	4-Jun-06	MIESAU AMMO DEP	T21919	MIESAUW1	MIESAU GM 191 ORD BN RSAM	0	0	6/1/2006 9:36
26	4-Jun-06	Q_WEST	T905020167	QWESTW1-S	QWEST IZ MULTICLASS SSA(W31) SARSS	0	0	6/4/2006 5:24
27	4-Jun-06	TREBIL	DVA0030_R	TREBILR1-D	TREBIL IZ DAVS TRAILER	0	0	6/4/2006 13:21
28	4-Jun-06	TREBIL	DVA0030_W	TREBILW1-D	TREBIL IZ DAVS TRAILER	0	0	6/4/2006 13:21

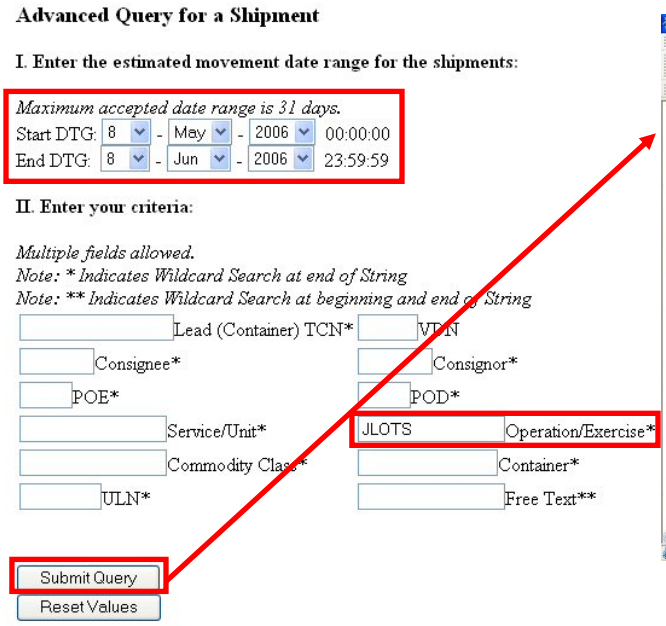
If any of the sites mentioned in this article are no longer in use, please call the RFID Customer Support Desk at 1-800-877-7925 or email them at help@rfitv.army.mil to have the site deleted from the ITV Server.

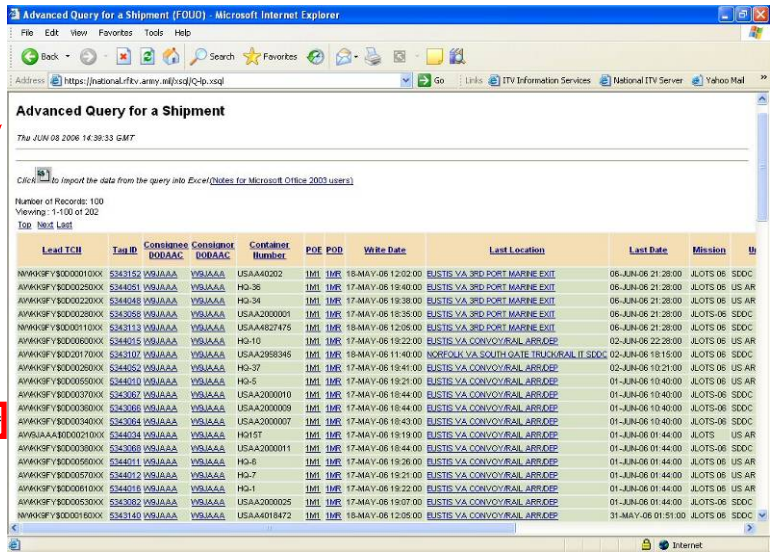
Joint Logistics-Over-the-Shore (JLOTS) Operations Training

During 17-19 May 2006, CASCOM RFID-ITV trainers and a Field Service Engineer from UNISYS deployed to Fort Eustis, VA in support of JLOTS pre-exercise preparation. The primary mission was to train and assist the 491st Automated Cargo Documentation Detachment and 597th Transportation Terminal Group in writing approximately 200 active RF tags for the JLOTS exercise running from late June through early July 2006. In concert with the JLOTS tag writing that was accomplished, instruction/guidance was provided on read/write hardware use and set-up. Once the tag data was up-loaded, the team provided training on performing "Quality Assurance" and then how to track the movement of supplies and equipment using the ITV Server network. We would like to extend our appreciation and gratitude to the Fort Eustis US Army Transportation School for allowing us the use of their training facility and RFID resources in support of the 491st and 579th.

JLOTS Operations Training (continued)

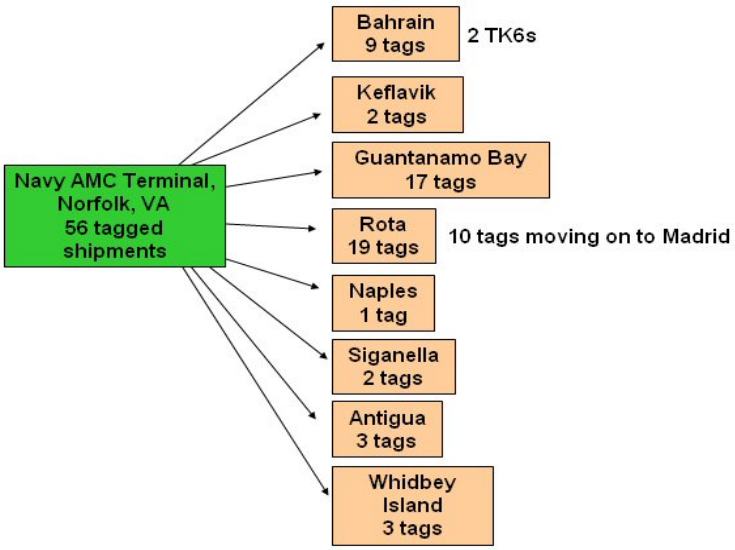
Using the ITV Server, users can track the movement of equipment in support of the JLOTS exercise. To follow the JLOTS exercise, click the **Multiple Data Elements** query and enter a 30-day date range. Input "**JLOTS"** in the Operation/Exercise field and then click **Submit Query**.





Day in the Life of Navy AMC Terminal, Norfolk, VA

For this month's analysis of a shipping/onward movement activity (RFID write site), we keyed in on the Navy AMC Terminal, Norfolk, VA. Specifically we looked at the tag writing workload for Tag Docking Station T903030075 (NORFOLKNW26) for the period 8 - 21 May 2006. During this 14-day period, we identified 56 tags that were written by T903030075 and destined mainly for overseas locations. The following are findings from this data analysis:



- Forty of the 56 tags (71%) were not read at final destination. We noted that 36 of the non-read tags had POD codes for locations that are not currently instrumented with read interrogators [examples: GTMO (Cuba), Keflavik, Whidbey Island].
- Twenty-five of 56 (45%) tags had left the "CONSIGNEE" field blank in the tag's license plate data field.
- There were only two tags closed out on the ITV server with a "TK6." This is a direct result of no "CONSIGNEE" in the license plate data coupled with the absence of read interrogators, as previously mentioned, at some locations.
- In 18 instances a POD code of "RTA" was used to indicate Rota, Spain (where the tags were finally read); however, RTA is actually Rotuma, Fiji.
- Twenty-nine of the tags identified during this analysis had archive records, indicating that 52% of the tags had prior use. However, to date none of the 56 tags have been re-written/re-used after they arrived at final destination.

From and For the Field…

TIPS-READ 3.7.1 IS AVAILABLE!

HIGHLIGHTS:

- **Modify Sensor Tag collection to be compliant with Coalition Interoperability Specs**
- **5 bug fixes**
- **In addition to a full install, a TIPS-Read 3.7.1 Update is available for stations currently running TIPS-Read 3.7.0.**

INSTALLATION PRESERVES CONFIGURATION SETTINGS:

The TIPS-Read installation process preserves site configuration information (Site Name, Read Settings, Upload Settings, POC info, etc.) from a previously installed TIPS-Read version. All ".INI" file values get transferred from the old version to the new. See Chapter 4 of the Installation and Configuration Guide for the full story. Also, settings for Secondary Server uploads will be preserved.

Note that any Windows Service settings (including "Startup Type" changes, "Log On As" for Dial-up Networking, and "Recovery Options") are NOT preserved. You must manually re-enter these service settings as usual.

If per chance there is a problem with the install, backup copies of the configuration files are located in this directory "C:\WINNT\Temp\TIPSRead3BACKUP."

REMINDER: As always, you should re-register your site(s) after installing a new version of TIPS-Read. Preserving site configuration information does not absolve you from re-registering with the RF-ITV server.

AGAIN, DEFAULT WINDOWS SERVICES STARTUP TYPE IS "MANUAL":

The Reader and Uploader services and the Administrator program work fundamentally the same as in previous versions. However, as in previous versions, **the default "Startup Type" properties for both services have been changed to "Manual." After installation, FSEs setting up a fixed interrogator must go into Windows services and change this to "Automatic" so that it will run 24/7 (even after a power failure followed by reboot).** As with any fixed TIPS-Read installation, before you leave it, you should always reboot the computer to test that all services restart and function properly.

RELEASE NOTES:

The "Release_Notes.html" document included in the software contains the complete list of changes and bug fixes since *Read 3.5.*

INSTALL DIRECTIVE:

TIPS-Read 3.7.1.52 was approved by the Configuration Control Board on May 31st, 2006 for immediate release.

WHERE TO DOWNLOAD:

Find the software here:

https://national.rfitv.army.mil/tipssw/ (NOTE: ITV User ID and password needed)

If you have a noteworthy RF-ITV success story, anecdote, lesson-learned, or short article for publication in the newsletter, please submit to PM J-AIT (Jerry Rodgers) at jerry.d.rodgers@us.army.mil.